

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

1. (Currently amended) A self-cooled gas insulation transformer comprising an apparatus including an iron core and a coil that is wound around said iron core, a tank to receive said apparatus therein and an inert gas that is filled in said tank as an insulating and cooling medium, wherein a global warming coefficient of said inert gas is rated 1 or below, and wherein said iron core is made of a material selected from a magnetic domain control silicone steel, a silicone steel of high orientation, and an amorphous alloy.

2. (Currently amended) A self-cooled gas insulation transformer comprising an apparatus including an iron core and a coil that is wound around said iron core, a tank to receive said apparatus therein and an inert gas that is filled in said tank as an insulating and cooling medium, wherein a molecular weight of said inert gas is less than 146, and wherein said iron core is made of a material selected from a magnetic domain control silicone steel, a silicone steel of high orientation, and an amorphous alloy.

3. (Currently amended) A self-cooled gas insulation transformer comprising an apparatus including an iron core and a coil that is wound around said iron core, a tank to receive said apparatus therein and a gas that is filled in said tank as an insulating and cooling medium, wherein said gas is selected from one of nitrogen gas, carbon dioxide gas, dried air and a mixed gas thereof, and wherein said iron core is made of a material selected from a magnetic domain control silicone steel, a silicone steel of high orientation, and an amorphous alloy.

4. (Currently amended) A self-cooled gas insulation transformer comprising an apparatus including an iron core and a coil that is wound around said iron core, a tank to

receive said apparatus therein and a gas that is filled in said tank as an insulating and cooling medium, wherein said iron core and coil are possessed with a loss characteristics of a high efficient transformer and said gas is an inert gas, a global warming coefficient of which gas is rated 1 or below, and wherein said iron core is made of a material selected from a magnetic domain control silicone steel, a silicone steel of high orientation, and an amorphous alloy.

5. (Currently amended) A self-cooled gas insulation transformer ~~according to claim 4 wherein said iron core is made from an amorphous metallic thin band.~~ comprising an apparatus including an iron core and a coil that is wound around said core, a tank to receive said apparatus therein and an inert gas that is completely filled in said tank as an insulating and cooling medium, wherein said iron core and coil are possessed with a loss characteristics of a high-efficient transformer and said gas is an inert gas, a global warming coefficient of which gas is rated 1 or below.

6. (Canceled).

7. (Currently amended) A self cooled gas insulation transformer in any one of claims 1 ~~to 6~~ to 5, wherein said gas is applied pressure at less than 0.2975 Mpa (2kg/cm<sup>2</sup>G) to be sealed in said tank.

8. (Currently amended) A self cooled gas insulation transformer as in any one of claims 1 ~~to 6~~ to 5 wherein said gas is applied pressure at 150.358 kPa or below so as to be sealed in said tank.

9-10. (Canceled).